

Hurricane Harvey-Texas

ESF-10

Situation Report #13

Subject: SITREP #13
To: Agency Leads
Thru: Matthew Loesel, PSC
From: Unified Command
Date: 9/11/2017
Reporting Period: 9/11/2017

1. Introduction

1.1. Background

Hurricane Harvey made landfall at 2300 ET, August 26th, as a Category 4 storm near Rockport, Texas. Harvey stalled over southeastern TX. Due to its slow motion and a prolonged period of onshore flow, the impacted areas received more than 50 inches of precipitation which subsequently led to catastrophic flooding.

An ESF-10 Mission Assignment was signed on August 28, 2017. The US Environmental Protection Agency (EPA), Texas Commission on the Environmental Quality (TCEQ), Texas General Land Office (TGLO) and the US Coast Guard (USCG) have entered into Unified Command to begin the evaluation, clean-up and recovery of spills, releases, vessels and orphan containers.

2. Current Activities

2.1. Operations Section

On September 11, 2017, Unified Command continued operations in accordance with the Natural Disaster Operational Workgroup (NDOW) Standard Operating Procedures, NDOW forms and Response Manager. The Unified Command is supported by three operational branches: Alpha Branch in Corpus Christi, Bravo Branch in Houston and Charlie Branch in Port Arthur. Hazard Evaluation, Oil Discharge Assessment and Recovery, as well as Orphan Container Evaluation and Recovery teams continued working throughout the Alpha, Bravo and Charlie Branches. Drinking Water (DW) and Waste Water (WW) Assessment teams were active in the Bravo Branch. EPA's mobile air monitoring Trace Atmospheric Gas Analyzer (TAGA) bus conducted air monitoring and continued to monitoring various areas in the Bravo Branch. ASPECT continued to survey Risk Management Program (RMP) facilities in the affected areas.



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Mission Assignment:

Request ESF-10 assistance to the State of Texas in support of assessment and response operations to actual or threatened hazardous materials and oil releases/discharges as covered under Category B (Emergency Protective Services) for Public Assistance. The assistance includes response to releases/discharges from fixed facilities, vehicles, intermodal container (to include orphaned containers) and vessels (mobile) sources to remove the threat of imminent danger or contamination to the public that could be caused by any release.

Table 1: Mission Assignments			
Funding Sources	Description	Funding Ceiling	End Date
MA 4332DR- TX-EPA-03	As requested by the State of Texas, provide assessment and emergency response support to the State including water/wastewater treatment plant assessments, aerial assessments	\$10,092,000	9/22/2017
USCG MA D17BA1	USCG will provide oil and hazardous materials field response which may include but not limited to the placement of vessels removed of pollutions to a pre-determined staging area; providing specialized expertise; conducting damage assessment of oil/hazmat waste impact via air and/or water; contractor oversight; evaluating hazards; and/or response, removal, or disposal of: actual and potential oil discharges, and releases of hazardous materials, pollutants and contaminations, and remove pollutants from vessels in or upon navigable waters and adjoining shoreline.	\$20,000,000	9/21/2017

Liaison Officers continue to coordinate with Aransas Emergency Management with environmental concerns of the Salt Lake Church outreach center located in Rockport.

EPA's Public Information Officer will report daily to ESF-15, enabling EPA and TCEQ news releases to reflect hazard materials/oil assessment and recovery work of Alpha, Bravo, and Charlie branches, including the recovery of orphan containers.

In a Sept. 11 Reuters news article, *"US Coast Guard, EPA cleaning up a dozen Texas chemical spills after Harvey"*, information provided by the ICP shed light on efforts to assess and respond to reported spills of hazardous materials and oil, including at 12 facilities where Unified Command teams have assessed conditions.

See <https://www.streetinsider.com/Reuters/US+Coast+Guard%2C+EPA+cleaning+up+a+dozen+Texas+chemical+spills+after+Harvey/13284015.html>

The State of Texas provided Unified Command with a list of Community Water System facilities to be assessed. The list has been divided by Branch, and the Branches are currently reviewing the list to determine the appropriate assessment activities that will be needed.

Table 2 represents the up to date assessments of drinking water and waste water systems evaluated by both phone and on-site.

Table 1: Drinking Water and Waste Water Assessments		
Assessment Types	Daily Assessments	Total Assessments
On-Site DW Assessments	43	467
On-Site WW Assessment	26	297
Phone DW Assessments	20	5211
Phone WW Assessments	0	3150

Table 3: Field Teams on 9/11/2017 – per IAP #13				
Teams1	Alpha	Bravo	Charlie	Total
Hazard Evaluation	1	2	2	5
Oil Discharge Assessment	2	7	1	10
ER/Orphan Container Recovery	1	6	1	8
Oil/Vessel Recovery	5	0	0	5
Staging Areas	1	1	1	3
Air Operations	0	1	1	2
Air Monitoring	0	3	0	3
Water Infrastructure Assessment – DW	0	11	0	11
Water Infrastructure Assessment – WW	0	5	0	5
Totals	10	36	6	52

Table 4: Daily/Cumulative summary of Hazard Evaluations/Recovery				
Status	Opened		Closed	
	9/11/2017	Number of Targets Remaining Open	9/11/2017	Cumulative
Alpha Branch	1	11	1	91
Bravo Branch	24	224	4	104
Charlie Branch	5	63	2	9
NRC Reports	0	2	0	1

Note: Open means the target is yet to be recovered. Closed means the target was recovered/left in place or access was denied to collect the item.

Table 5: Waste Received at All Staging Pads to Date						
DATE	CONTAINERS			Cylinders	TOTALS	
	Drums [55gal]	Small Containers [< 55gal]	Large Containers [> 55gal]		Total Items Collected Today	Total Items Collected Project to Date
9/10/2017	10	20	0	9	39	175
9/11/2017	10	24	3	6	43	218
Totals	94	80	11	33		

Table 6: Daily/Cumulative Summary of Spills/Discharges (NON-VESSELS)				
Status	Opened		Closed	
	9/10/2017	Number of Facilities/Spills Remaining Open	9/10/2017	Cumulative
Alpha Branch	1	8	0	35
Bravo Branch	3	47	1	41
Charlie Branch	1	17	1	10
NRC Reports	18	147	7	55
Totals	23	219	9	141

Note: Open means the target is yet to be recovered/cleaned up. Closed means the target was recovered/cleaned up by an RP or not found upon return to location.

Table 7: Daily/Cumulative Summary of VESSELS				
Status	Opened		Closed	
	9/11/2017	Number of Vessels Remaining Open*	9/11/2017	Cumulative
Alpha Branch	24	239	2	162
Bravo Branch	2	45	1	13
Charlie Branch	7	42	0	5
NRC Reports	3	6	0	6
Totals	36	332	3	186

*The number of targets Remaining Opened has changed as QA/QC efforts have taken place and due to correction made to the coding. Previous amounts were the total number of targets opened overall, not just those remaining open.

Note: Open means the target is yet to be recovered. Closed means the target was recovered/cleaned up by an RP or not found upon return to location.

Other Notable Activities

ALPHA BRANCH

The Oil Discharge Assessment Team 1 monitored salvage operations associated with the Signet Enterprise. The heavy lift straps for the salvage operations arrived allowing the slings and hoist cables to be in place for the vessel lifting process which is expected to commence tomorrow. There was no pollution or otherwise significant events to report.

The Oil Discharge Assessment Team 2 monitored salvage operations of the towing vessel Sandy Point. The towing vessel was successfully lifted and removed from the beach. The salvage team assessed the space and did not find any indications of significant leaks or pollution. The vessel was subsequently towed to Gulf Copper.

The Oil Discharge Recovery Team 1 coordinated and monitored responsible party led operations in Rockport, Fulton, and Key Allegro Marinas.

The Oil Discharge Recovery Team 2 coordinated and monitored responsible party led operations in Cove Harbor and Conn Brown Marinas.

BRAVO BRANCH

The Hazard Evaluation Team responded to a report of a chlorine release in the vicinity of Chocolate Bayou. The teams arrived on scene with the identification equipment and did not observe or record any indications of a chlorine release.

The Discharge Assessment Teams assessed targets within Galena Park, the Woodlands and Chambers. A total of 25 targets were closed with every target being either recovered/cleaned-up or no pollution was found. Two boat teams conducted reassessments with the Texas General Land Office off San Bernard and Bastrop to verify that there are no additional targets in those areas.

The Emergency Response/Orphan Container Recovery Teams recovered 40 containers. Teams were recovering targets in portions of Colorado, Austin, Waller, Fort Bend, Harris, Wharton, and Montgomery counties. No significant human or environmental threats discovered during the recovery process.

ASPECT has completed flight operations for the Harvey Response. They flew the remaining RMP sites in the greater Houston area. The survey consisted of 66 points for which all were surveyed. Data is being pulled from the aircraft at this time and will be processed and posted on September 12, 2017.

CHARLIE BRANCH

The Inland Task Force Hazard Evaluation Group, Orphan Container Recovery Group and Oil Discharge Task Force conducted assessments in Lumberton, Sour Lake, Port Arthur, Sabine Pass, Beaumont, Bridge City, Beaumont Yacht Club and Rose City.

The Hazard Evaluation Team 1 conducted an inland patrol of Orange County and found 12 targets. There were no active discharges or significant threats observed. The Hazard Evaluation Team 2 conducted patrols along the marine fueling pier and Rainbow Marina. Team 2 assessed 4 targets and observed no active discharges or sheen or the target had already been recovered or cleaned up.

The Discharge Assessment Team investigated 4 targets. Two of the targets will be recovered/ cleaned up, one target was inaccessible due to its location inside a refinery, and 1 was cleaned up/recovered and subsequently closed.

The Orphan Container Recovery Team 1 investigated and recovered five targets. Three targets were identified but contained no oil or hazardous material. While assessing the five aforementioned targets, the team discovered and recovered a 25-gallon container of unknown liquid. Further assessment is required.

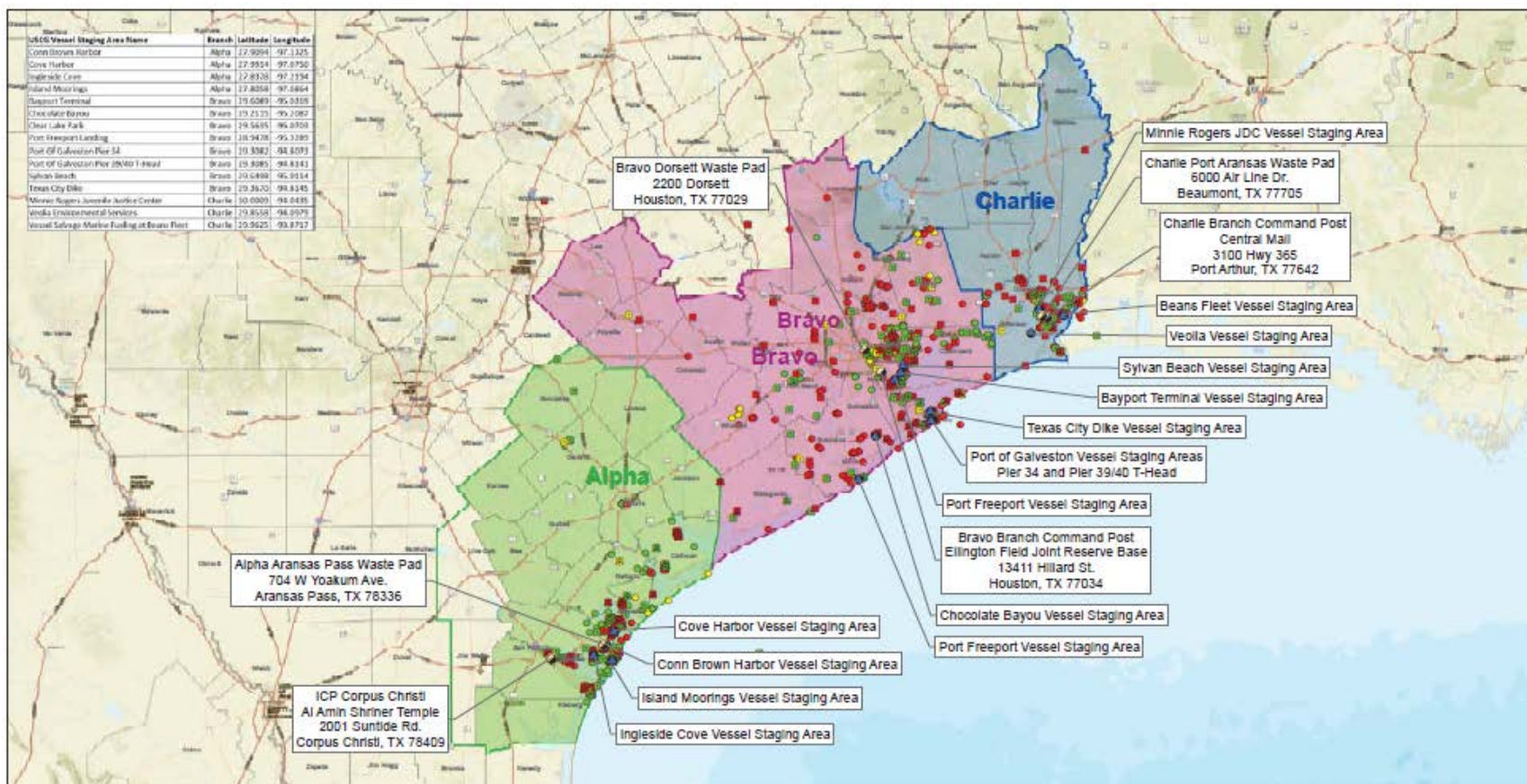
The Orphan Container Recovery Team 2 investigated 8 targets. Of those targets, one target contained a small leak from a 4,000-gallon diesel tank. EPA and associated recovery teams were notified, assessed the leak and plan to complete response/recovery operations tomorrow. The staging area was completed and began taking orphan containers today.

Participating Agencies

- Texas Commission on Environmental Quality
- Texas General Land Office
- Texas Parks and Wildlife
- US Environmental Protection Agency
- US Coast Guard
- National Oceanic and Atmospheric Agency

3. Personnel on Site

Agency	ICP	Alpha Branch	Bravo Branch	Charlie Branch	Totals
US EPA	9	2	38	5	54
USCG	19	19	44	25	107
TCEQ	2	2	26	6	36
TGLO	4	3	1	2	10
TXSG	0	0	8		8
CST	0	0	6		6
NOAA	1	0	0		1
Contractors	8	2	12	6	28
Totals	43	28	135	44	250



Legend Federally Declared Counties: in Alpha in Bravo in Charlie Incident Command Post (ICP) / Staging Area Vessel Staging Location		USA EPA REGION 6 SITREP Map Alpha, Bravo, Charlie Hurricane Harvey Response September 11, 2017		 For Official Use Only	 EPA GIS Printed: 6:27:54 PM 9/11/2017
Facility/Spill Assessment Open Open - Cleanup in Progress Closed	Haz/Eval Items Open Open Closed	Vessels Open Open - Cleanup in Progress Closed	Access Denied/Leave in Place/Refer to Other Agency		